

XP-002078807

P.D. 13-1C-1995  
P. = (1)

AN \*\*\*119:170093\*\*\* CA  
TI Color-variable light-emitting diode utilizing conducting polymer containing fluorescent dye  
AU Uchida, Masao; Ohmori, Yutaka; Noguchi, Takanobu; Ohnishi, Toshihiro; Yoshino, Katsumi  
CS Fac. Eng., Osaka Univ., Suita, 565, Japan  
SO Jpn. J. Appl. Phys., Part 2 (1993), 32(7A), L921-L924  
CODEN: JAPLD8; ISSN: 0021-4922  
DT Journal  
LA English  
CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)  
AB A color-variable light-emitting diode has been realized utilizing conducting polymer, poly(2,5-dioctyloxy-p-phenylene vinylene) (ROPPV-8), mixed with fluorescent dye, tris(8-hydroxyquinolinato)aluminum (Alq3). The electroluminescence of the diode changes from orange to greenish-yellow in color with increasing applied voltage. On the other hand, a light-emitting diode with the two-layer structure of ROPPV-8 and Alq3 shows only light emission from the ROPPV-8 layer. This difference is discussed in terms of the carrier injection process to Alq3.  
ST light emitting diode polymer fluorescent dye; electroluminescent device polymer fluorescent dye  
IT Luminescence  
Luminescence, electro-Ultraviolet and visible spectra (of polymer contg. fluorescent dye)  
IT Electroluminescent devices (org., color variable, using conducting polymer contg. fluorescent dye)  
IT 2085-33-8, Tris(8-hydroxyquinolinato)aluminum 50926-11-9, Indium tin oxide 133069-19-9, Poly(2,5-dioctyloxy-p-phenylenevinylene)  
RL: USES (Uses)  
(in electroluminescent device)

BEST AVAILABLE COPY